

C41

Water Cooled Resonant Capacitor

Water Cooled Resonant Capacitor C41-BA2



Characteristics

- Conduction water-cooled
- Polypropylene dielectric
- Low dissipation factor($\text{tg}\delta$), low ESL and low ESR
- High voltage, high frequency and high dv/dt
- High current resistance, excellent heat dissipation

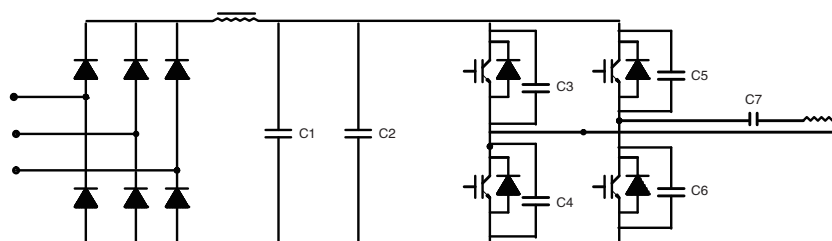
Application

- Widely used in high power and high frequency resonant devices

Technical Data

● Reference standards	GB/T 3984-2004 IEC 60110.1
● Operating temperature range	-40°C~+85°C
● Capacitance range	0.1 μF ~85 μF
● Rated capacitance	100kVar-1500 kVar
● Rated voltage	400VAC-1100VAC
● Tolerance	$\pm 5\%$ $\pm 10\%$
● Test voltage between terminals	1.5 U_{NAC} 10s
	3.5 U_{NDC} 10s at 25°C $\pm 5^\circ\text{C}$
● Dissipation factor	$\text{tg}\delta \leq 5 \times 10^{-4}$ at 25°C $\pm 5^\circ\text{C}$, 1kHz
● Insulation resistance	$R \cdot C \geq 3000\text{s}$, at 100VDC, 25°C $\pm 5^\circ\text{C}$, 60s
● Life expectancy	100000h at U_{N} and 70°C, 30000h at U_{rms}

Typical Circuit

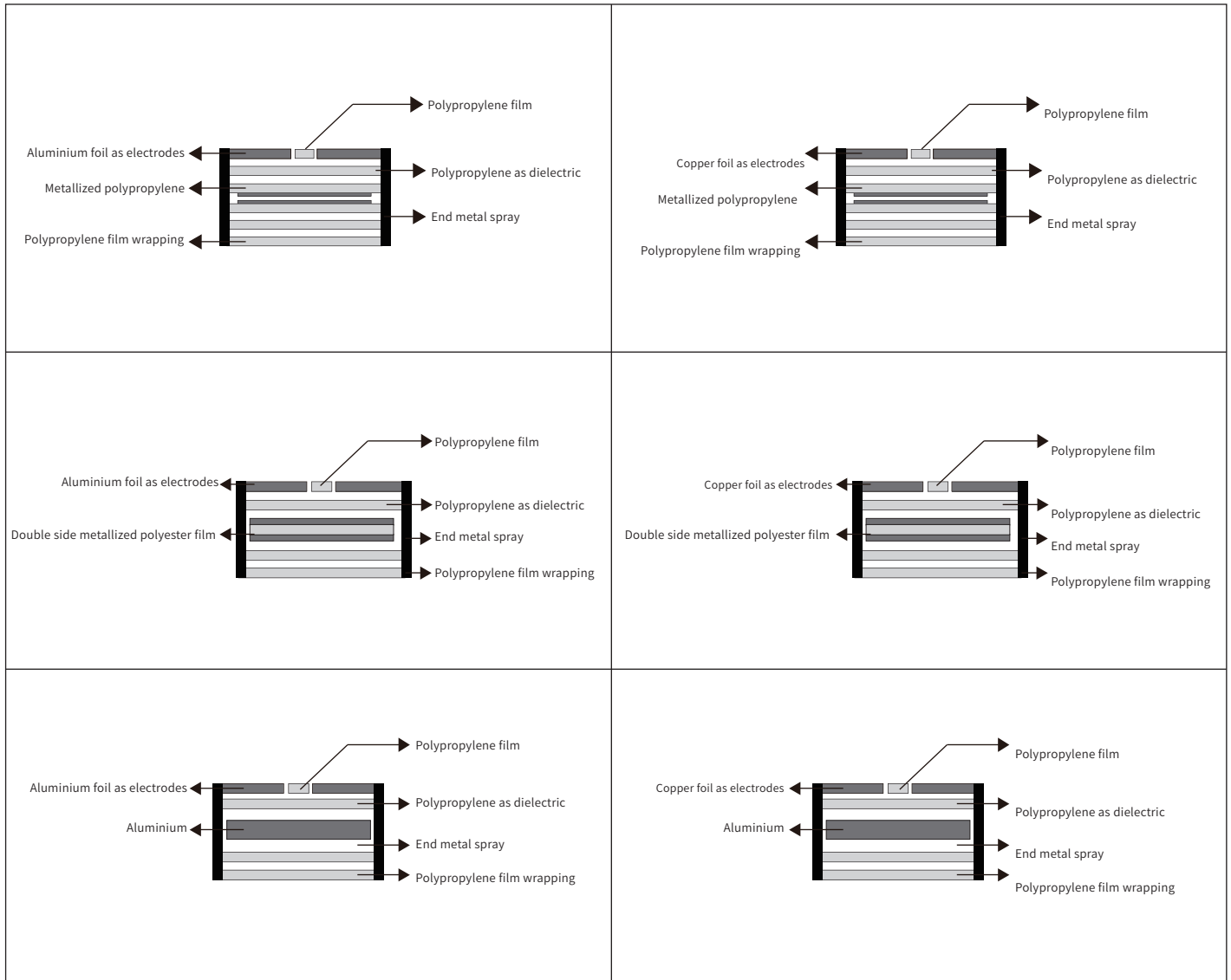


C7 is the water-cooled capacitor in the series resonant capacitor

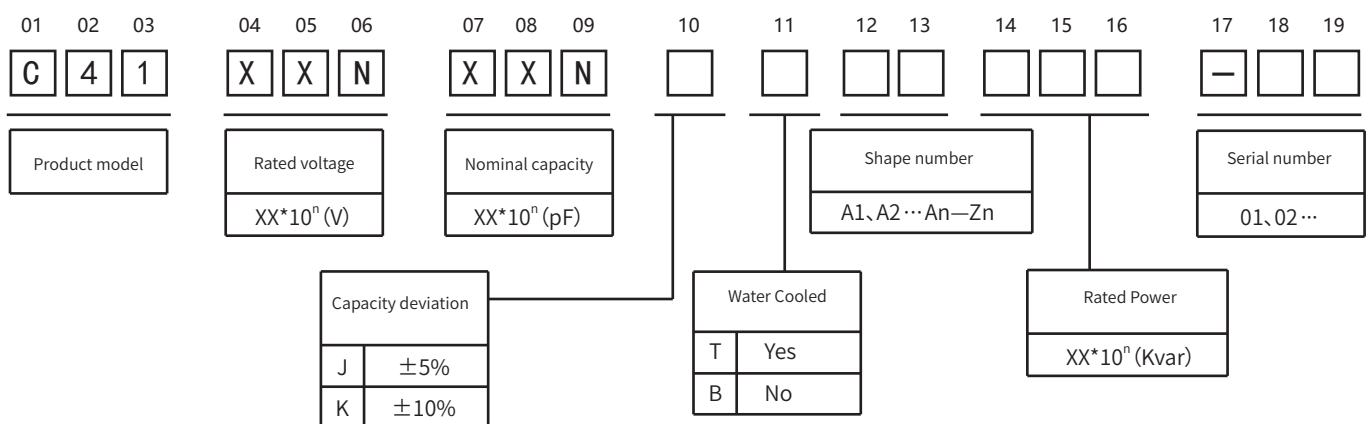
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Construction Diagram



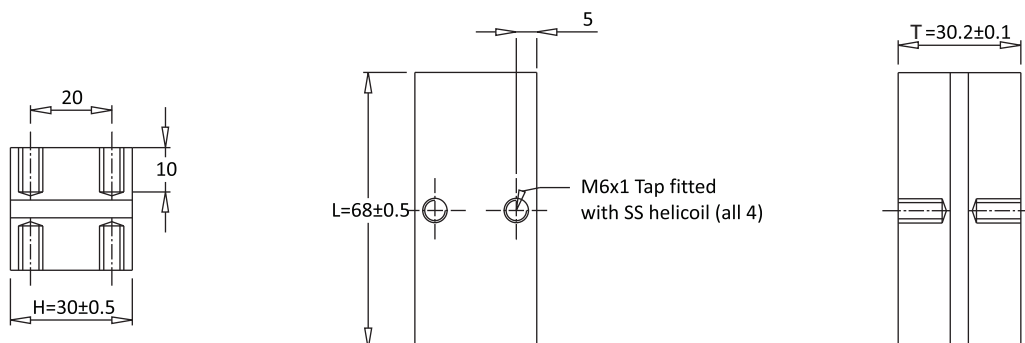
Product Coding



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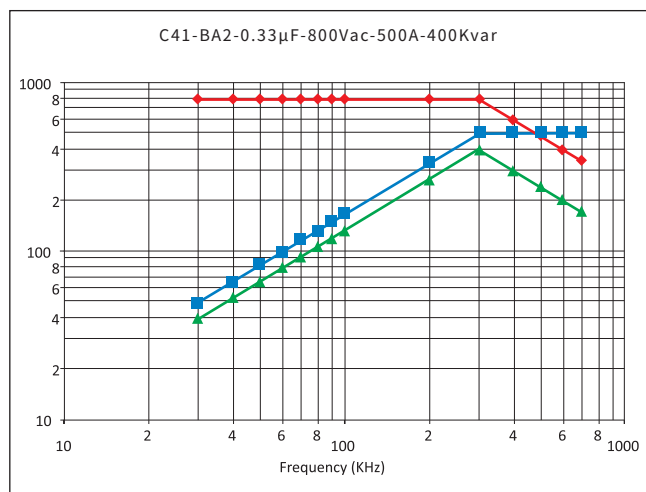
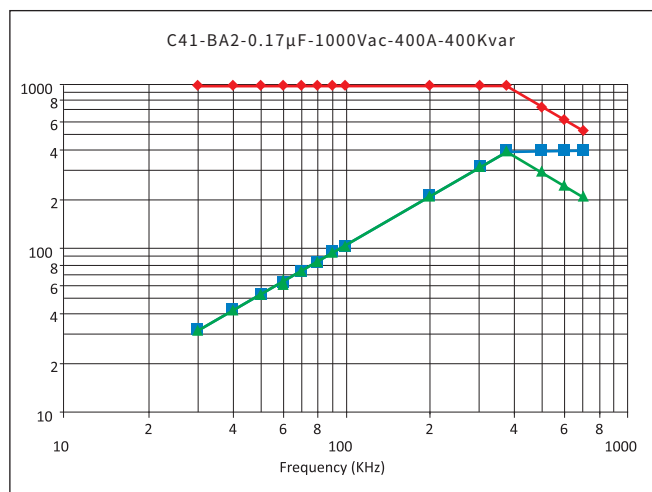


Article Table

Part Number	Rated Voltage Vrms	Nominal Capacitance μF at 1Khz	Max Irms A	Max Power kVar	Freq Range @Full Power (kHz)	ESR m Ω	Dimension (mm)			Case Code
							L	H	T	
C41102174KBA2401...	1000	0.17	400	400	375	1.4	68	30	30.2	BA2
C41801334KBA2401...	800	0.33	500	400	302	1.2	68	30	30.2	BA2
C41701504KBA2401...	700	0.50	650	400	260-336	1.1	68	30	30.2	BA2
C41701664KBA2401...	700	0.66	650	400	197-255	1.0	68	30	30.2	BA2
C41601135KBA2401...	600	1.32	800	400	133-192	0.9	68	30	30.2	BA2
C41501245KBA2401...	500	2.40	800	400	106	0.8	68	30	30.2	BA2

Temperature Characteristics

—◆— Voltage —■— Current —▲— Power



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Temperature Characteristics

—●— Voltage —■— Current —▲— Power

